

Title (en)
SOLAR CELLS ARRANGEMENT

Title (de)
SOLARZELLENANORDNUNG

Title (fr)
SYSTEME DE CELLULES SOLAIRES

Publication
EP 2033230 A4 20160330 (EN)

Application
EP 07736392 A 20070530

Priority
• IL 2007000652 W 20070530
• US 80339006 P 20060530

Abstract (en)
[origin: WO2007138589A2] A solar energy conversion system is presented. The system comprises at least one waveguide arrangement having at least one light input respectively. The waveguide arrangement comprises a core unit for passing input solar radiation therethrough and a cladding material arrangement interfacing with the core therealong. The cladding material arrangement is configured as an array of spaced-apart solar cells arranged along the core unit and having different optical absorption ranges, such that an interface between the waveguide core and the cladding arrangement spectrally splits the photons of the input solar radiation by causing the photons of different wavelengths, while passing through the core unit, to be successively absorbed and thereby converted into electricity by the successive solar cells of said array.

IPC 8 full level
H01L 31/054 (2014.01)

CPC (source: EP US)
H01L 31/0547 (2014.12 - EP US); **H01L 31/0549** (2014.12 - EP US); **Y02E 10/52** (2013.01 - EP US)

Citation (search report)
• [A] WO 0054340 A1 20000914 - IMPERIAL COLLEGE [GB], et al
• [A] DE 2907424 A1 19800828 - FLOEGEL EBERHARD
• See references of WO 2007138589A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007138589 A2 20071206; WO 2007138589 A3 20090423; AU 2007266557 A1 20071206; AU 2007266557 B2 20130801; CN 101454903 A 20090610; CN 101454903 B 20120509; CN 102623538 A 20120801; EP 2033230 A2 20090311; EP 2033230 A4 20160330; US 2010200044 A1 20100812; US 2013087182 A1 20130411; US 8354583 B2 20130115

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